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Patent Application

of

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for

THREADED RING FOR LOCKING ON A THREADED SPINDLE

Background of the Present Invention

The present invention relates to a threaded ring having a one-piece body provided with internal threading and two body components. One body component is in the form of a set collar with a planar surface on the end in a radial plane. The other body component forms a retaining ring connected to the first component to form a gap positioned between the two body components by an elastically flexible wall component. An actuating mechanism permits the geometry of the gap to be adjusted on the basis of the elastic flexibility of the wall component

Background of the Invention

Threaded rings of this type are disclosed in DE Patent Application 1 675 685, for example, are commercially available, and are applied in various areas of mechanical engineering. The body component forming the planar face serves as a high-precision nut seated on the external threading of a shaft or spindle. The axial position of the nut may be determined with high accuracy by the second body component functioning as a retaining ring. The threaded flank clearance present between external threading and internal threading is eliminated by suitably modifying the gap between the two body components by the actuating device. Such modification is made possible by the elastic flexibility of the wall component joining the body

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